

ABSTRACT

An optical film for a liquid crystal display of the invention
5 **laminated a polarizing plate and a retardation film so that an**
absorption axis of the polarizing plate and a slow axis of the
retardation film are perpendicular or parallel to each other,
wherein the polarizing plate comprises a transparent protective
film on both surfaces of a complex type scattering-dichroic
10 **absorbing polarizer including a film that has a structure having a**
minute domain dispersed in a matrix formed of an optically-
transparent water-soluble resin including an absorbing dichroic
material, and the transparent protective film satisfies that an in-
plane retardation $Re_1 = (nx_1 - ny_1) \times d_1$ is 10 nm or less and a
15 **thickness direction retardation $R_{th} = \{(nx_1 + ny_1)/2 - nz_1\} \times d_1$ is**
in the range of from 30 nm to 100 nm; and the retardation film
satisfies that an Nz value represented by $Nz = (nx_2 - nz_2)/(nx_2 -$
 $ny_2)$ is in the range of from 0.1 to 0.8 and an in-plane retardation
 $Re_2 = (nx_2 - ny_2) \times d_2$ is in the range of from 60 to 300 nm. The
20 **optical film for a liquid crystal display has a high contrast ratio**
over a wide range, a high transmittance, and a high degree of
polarization and in which uneven transmittance can be suppressed
when black viewing is displayed, and capable of realizing a better
view in a case where the optical film is applied to a liquid crystal
25 **display driving in IPS mode.**